

Panasonic

Portable Stereo CD System

Operating Instructions

Model No. **RX-DX1**



COMPACT
disc
DIGITAL AUDIO

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.

The model number and serial number of this product can be found on either the back or the bottom of the unit.

Please note them in the space provided below and keep for future reference.

MODEL NUMBER RX-DX1

SERIAL NUMBER _____

User memo:

DATE OF PURCHASE _____

DEALER NAME _____

DEALER ADDRESS _____

TELEPHONE NUMBER _____

Supplied Accessories



Please check and identify the supplied accessories.

Use numbers indicated in parentheses when asking for replacement parts.

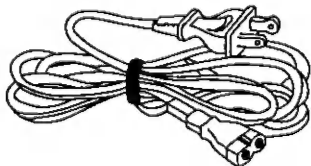
(Only for U.S.A.)

To order accessories contact 1-800-332-5368 or web site (<http://www.panasonic.com>).

- ☐ AC power supply cord (polarized) 1pc.
(RJA0065-1D)

Note

The included AC power supply cord is for use with this unit only. Do not use it with other equipment.



- ☐ Remote control transmitter (EUR648263) 1pc.



Listening Caution



Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

We recommend you to avoid prolonged exposure to excessive noise.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

The following mark and symbols are located on bottom of the unit.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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THE FOLLOWING APPLIES ONLY IN THE U.S.A.:

CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION:

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

CAUTION!

DO NOT INSTALL, OR PLACE THIS UNIT, IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the safety precautions listed below. Keep these operating instructions handy for future reference.

Before use

Safety

1. **Power source**—Connect the unit to a power source of the type described in these instructions or as marked on the unit.
2. **Polarization**—The unit is equipped with a polarized power plug where one blade is wider than the other. This safety feature ensures that the plug fits into your household AC outlet only one way. If the plug doesn't fit one way, try reversing it. If the plug still doesn't fit, contact an electrician to replace the obsolete outlet. Do not attempt to defeat the safety purpose of the plug.
3. **Power cord protection**—Route the AC power supply cord so that it will not be walked on or pinched by items placed on or against it. Never take hold of the plug or cord with wet hands. Always grasp the plug body firmly when connecting and disconnecting it.
4. **Overloading**—When connecting the AC power supply cord, be careful not to overload the household AC outlet, extension cord, or outlet from any other device as this can result in fire or electric shock.
5. **Nonuse periods**—Turn the unit off when it is not in use. Unplug the unit from the household AC outlet if it is not to be used for a long time. Unplug the unit during lightning storms.
6. **Attachments and accessories**—Use only the attachments and accessories recommended in these operating instructions.

Installation

Placement

1. **Ventilation**—Situate the unit so that it receives proper ventilation. Do not install in a confined space such as a bookcase or cabinet. Allow at least 10 cm (4 inches) clearance from the rear of the unit. To prevent the risk of electric shock or fire due to overheating ensure curtains and other materials do not obstruct the unit's ventilation.
2. **Foreign material**—Ensure objects and liquids do not get into the unit. Avoid exposing the unit to excessive smoke, dust, mechanical vibration, and shock.
3. **Magnetism**—Situate the unit away from equipment and devices that generate strong magnetic fields.
4. **Stacking**—Do not place heavy objects on top of this unit.
5. **Surface**—Place the unit on a flat, level surface.
6. **Carts and stands**—Use the unit only with carts and stands recommended by the manufacturer. Move carts with care. Sudden stops, excessive force, and uneven surfaces can cause carts to overturn.
7. **Wall and ceiling mounting**—Do not mount the unit on walls or ceilings unless specified in the instructions.



Environment

1. **Water and moisture**—Do not use the unit near water, such as near a bathtub or swimming pool. Avoid damp basements.
2. **Heat**—Situate the unit away from heat sources, such as radiators. Do not situate where temperatures fall below 5°C (41°F) or rise above 35°C (95°F).

Maintenance

(See back cover for details.)

Unplug the unit from the household AC outlet before cleaning.

Clean with a damp cloth.

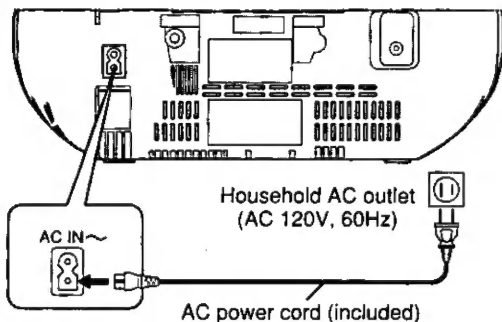
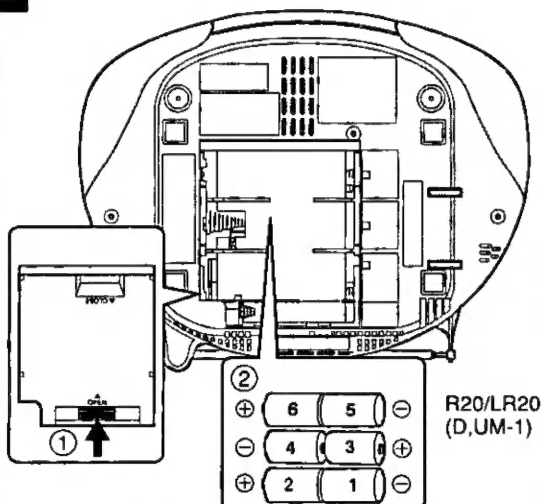
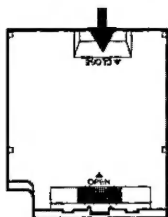
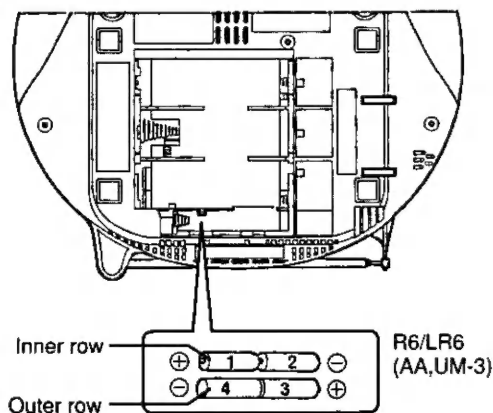
Do not use abrasive pads, scouring powders, or solvents.

Service

1. **Damage requiring service**—The unit should be serviced by qualified service personnel if:
 - (a) The AC power supply cord or the plug has been damaged; or
 - (b) Objects or liquids have gotten into the unit; or
 - (c) The unit has been exposed to rain; or
 - (d) The unit does not operate normally or exhibits a marked change in performance; or
 - (e) The unit has been dropped or the cabinet damaged.
2. **Servicing**—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
3. **Replacement parts**—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
4. **Safety check**—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

Use of Batteries

- If this unit is not to be used for a long period of time or is used only from an AC power source, remove all the batteries to prevent potential damage due to possible battery leakage.
 - Align the poles (+ and -) properly when inserting the batteries.
 - Do not mix old and new batteries or different types of batteries.
 - Do not recharge ordinary dry cell batteries.
 - Do not heat or disassemble the batteries. Do not allow them to contact flame or water.
 - Do not keep together with metallic objects such as necklaces.
 - Do not use rechargeable type batteries.
 - Do not use batteries if the covering has been peeled off.
- Mishandling of batteries can damage other items, cause damage to the unit, and may cause a fire through short-circuiting or electrolyte leakage.
- If electrolyte leaks from the batteries, consult your dealer. Wash thoroughly with water if electrolyte comes in contact with any part of your body.

A**B****C****D**

Power Sources

A Operating the unit on AC power

Connect the AC power supply cord.

Conserving power

The unit consumes 1.0W even when it is turned off with [TAPE/OFF DOZE]. To save power when the unit is not to be used for a long time, unplug it from the household AC outlet. Remember to reset the radio stations and any other memory items before using the unit again if you haven't inserted memory batteries.

Using batteries (not included)

The unit cannot be powered by batteries if the AC power supply cord is connected.

The remote control cannot turn the unit on when batteries are used.

Battery installation

Place unit on a soft cloth when installing and removing batteries to avoid damaging the front panel.

B Inserting the batteries.

- ① Slide and press in the direction of the arrow to open the battery cover on the bottom of the unit.
- ② Install batteries in the order indicated in the diagram.

C Closing the cover.

Slide in the direction of the arrow.

Removing the batteries.

Press the negative end of the number 2 battery and remove the batteries.

Battery life

"UO1" is displayed when the batteries are running down. Replace all the batteries with new ones.

D Memory Back-up Batteries (not included)

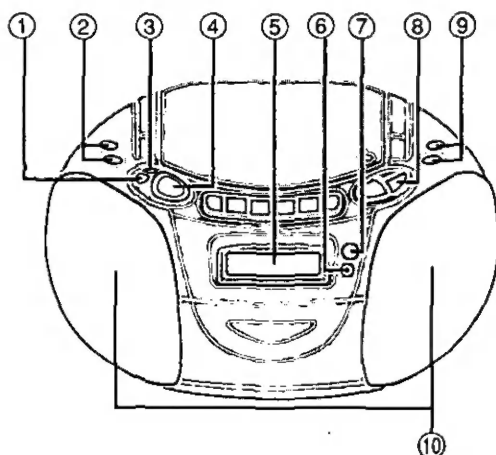
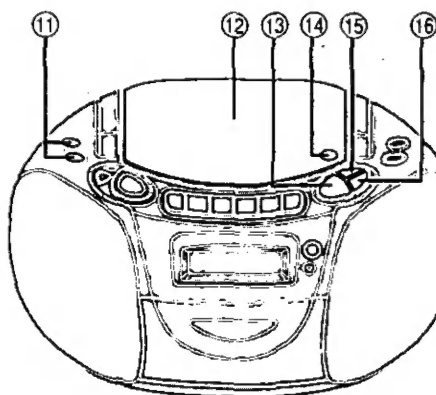
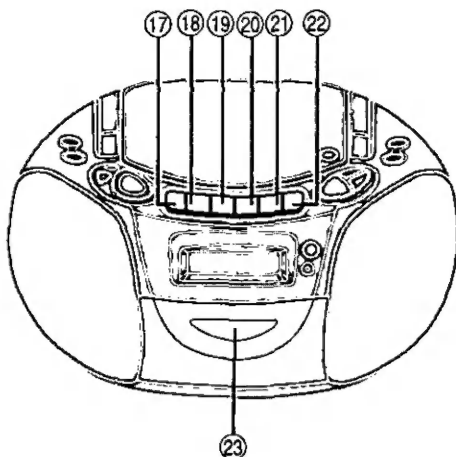
Insert these batteries to save the information contained in the memory, such as the clock and alarm settings, if there is an interruption to the power supply. These batteries do not power the unit.

Replacing the batteries

- The memory batteries last about one year.
- Connect the unit to AC power before replacing the batteries.
- Extend the life of the memory batteries by always pressing [TAPE/OFF DOZE] to turn the unit off before disconnecting the unit from the AC power source or replacing the power batteries.

Removing the batteries

Lift the positive end of the number 4 battery to remove batteries.

A**B****C**

Location of Controls

A Clock, Alarm and Basic controls

Number	Designation	Reference Page
①	Alarm set button (ALARM 1/2)	16
②	Time adjust buttons (-/I◀, +/▶/I)	15, 16
③	Clock/alarm mode select button (CLOCK/ALARM ADJ)	15, 16, 17
④	Tape/power standby/doze button (TAPE/OFF DOZE)	5, 13, 17
	The operation switch does not separate entire unit from AC power source even if in "TAPE/OFF DOZE" position.	
⑤	Display panel	
⑥	Power Indicator (POWER)	
	The indicator lights red when the unit is turned on.	
⑦	Remote control signal sensor	7
⑧	Alarm stop button (■ ALARM STOP)	17
⑨	Volume control buttons (VOL -, VOL +)	8
⑩	Speakers	

Note

These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.

B Tuner/CD controls

Number	Designation	Reference Page
⑪	Tuning/CD skip/search buttons (-/I◀, +/▶/I)	8, 10
⑫	CD lid	
⑬	CD play/pause button (▶/II)	8
⑭	CD lid open/close (△ CD OPEN/CLOSE)	8
⑮	Band button (TUNER/BAND)	10
⑯	CD stop button (■ ALARM STOP)	8

C Cassette deck controls

Number	Designation	Reference Page
⑰	Pause button (II PAUSE)	12
⑱	Stop/eject button (■/△ STOP/EJECT)	12
⑲	Fast forward/cue button (◀◀ FF/CUE)	12
⑳	Rewind/review button (▶▶ REW/REV)	12
㉑	Play button (▶ PLAY)	12
㉒	Record button (● REC)	13
㉓	Deck	

The Remote Control

A Buttons

Number	Designation	Reference Page
②④	Sleep timer button (SLEEP)	17
②⑤	Preset equalizer button (PRESET EQ)	14
②⑥	Numbered buttons	8, 9, 11
②⑦	Auto scan button (AUTO SCAN)	10
②⑧	Dimmer button (DIMMER)	15
②⑨	Sound virtualizer button (S.VIRTUALIZER)	14
③⑩	CD Program/clear, tuner preset button (PGM/CLEAR)	9, 11
③①	CD play mode, FM mode button (PLAY MODE)	9, 10
③②	Preset scan button (PRESET SCAN)	11

When the unit is supplied with AC power, buttons ① to ④, ⑧, ⑨, ⑪, ⑬, ⑮ and ⑯ function in the same way as the controls on the main unit. To save power, the unit cannot be turned on from the remote control when the batteries are used.

B Batteries (not included)

Insert so the poles (+ and -) match those in the remote control.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place. Replace if the unit does not respond to the remote control even when held close to the front panel.

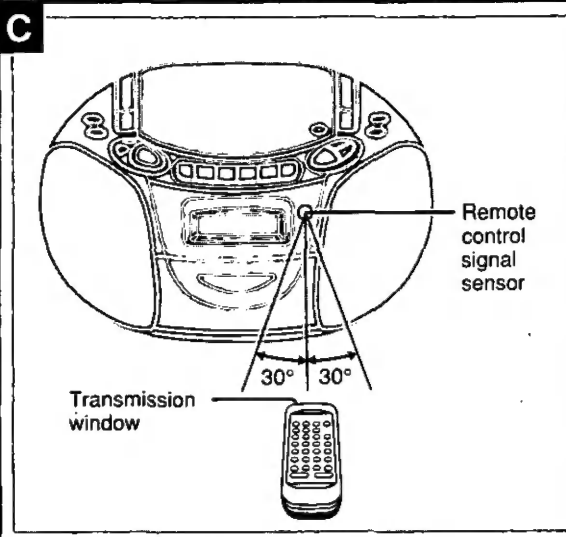
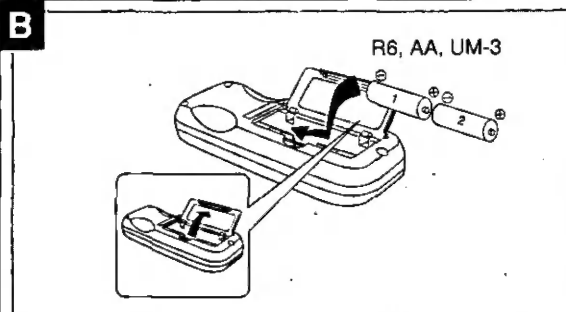
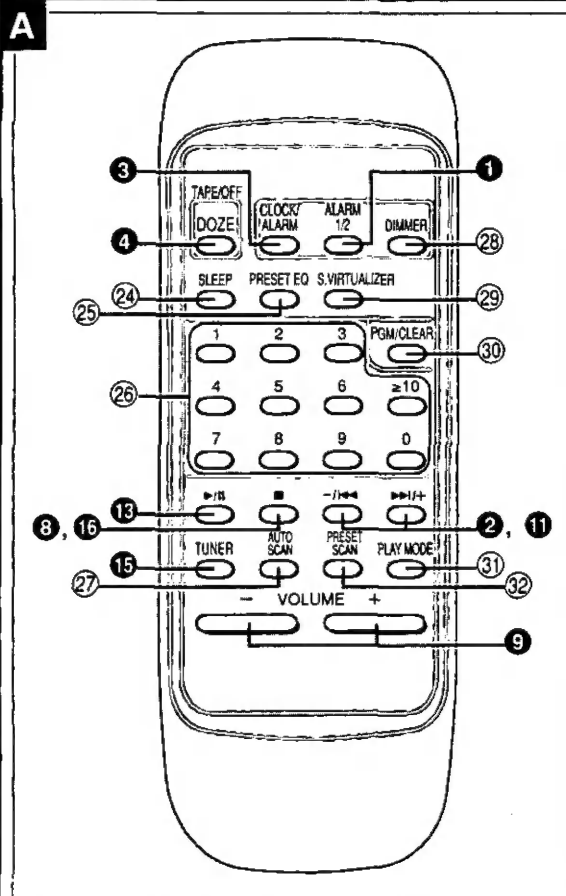
C Use

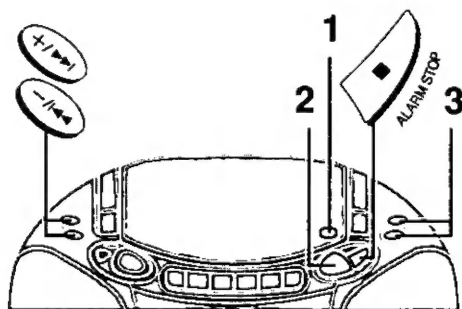
Aim at the sensor, avoiding obstacles, at a maximum range of 7 meters directly in front of the unit.

- Keep the transmission window and the unit's sensor free from dust.
- Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

Do not;

- put heavy objects on the remote control.
- take the remote control apart.
- spill liquids onto the remote control.



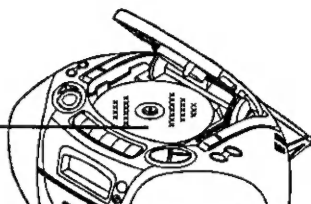


A

1

CD OPEN/CLOSE

Label must face upward

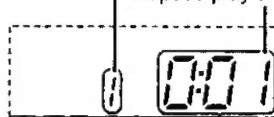


2



Track number in play

Elapsed play time



3

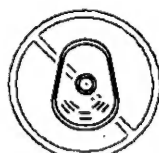


B

(a)

COMPACT
disc
DIGITAL AUDIO

(b)

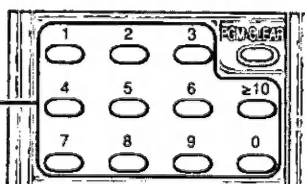


(c)



C

Numbered buttons



CDs

A Normal Play

- 1 Push [▲ CD OPEN/CLOSE] to open the CD lid, load a CD, and push [▲ CD OPEN/CLOSE] to close the CD lid.
- 2 Press [▶/II] to start play.
The unit comes on and plays to the end of the CD and stops.
- 3 Press [VOL - , VOL +] to adjust the volume.

To stop play

Press [■ ALARM STOP].

One touch play

When a CD is loaded, press [▶/II].
The unit comes on and play starts.

To pause play

Press [▶/II] during play.
Press again to resume play.

To skip tracks

Press [←/II◀] (backward) or [+/▶▶] (forward).

Searching through tracks

Press and hold [←/II◀] (backward) or [+/▶▶] (forward) during play.

"NO DISC" is displayed if there is no disc in the unit.

Notes

- If interference occurs to radios or televisions, place the unit as far as possible from this equipment.
- Do not press [▲ CD OPEN/CLOSE] during play, pause or immediately after you inserted the CD and closed the CD lid. CD may be scratched.

B CD selection

Choose CDs with this mark: (a)

This unit can play CD-DA (digital audio) format audio CD-R and CD-RW that have been finalized (a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW) upon completion of recording.

It may not be able to play some CD-R or CD-RW due to the condition of the recording.

Do not;

- use irregularly shaped CDs (b).
- use CDs with labels and stickers that are coming off or with adhesive exuding from under labels and stickers. (c)
- attach scratch-proof covers or any other kind of accessory.
- write anything on the CD.
- clean CDs with liquids. (Wipe with a soft, dry cloth.)
- use CDs printed with label printers available on the market.
- load a blank CD-R/CD-RW as it will cause abnormal malfunction and may damage the CD-R/CD-RW.

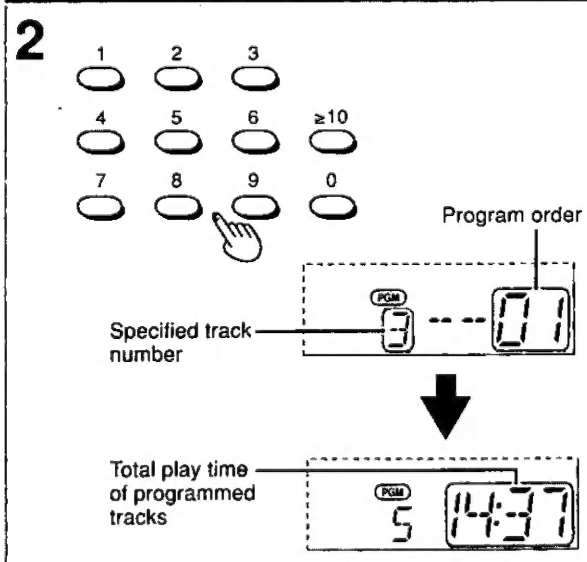
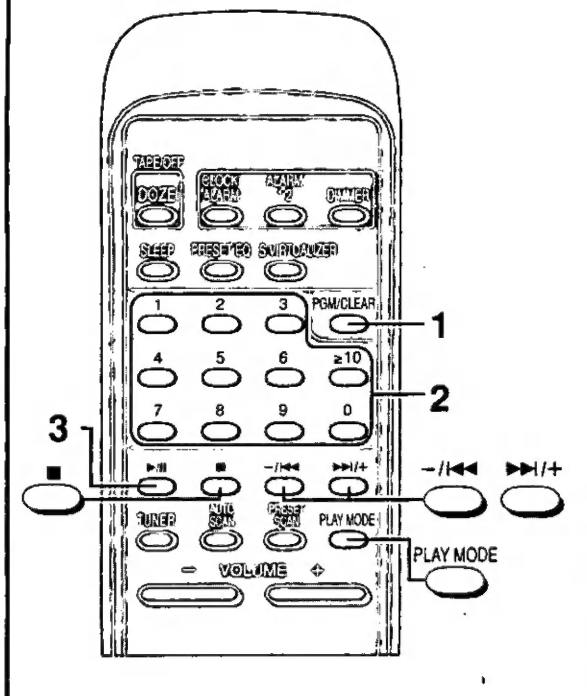
C Direct access play

Starts play from a selected track

Remote control only

Select the track with the numbered buttons.

For two-digit tracks, press [≥10], then the two digits.



CDs

Program play

Select up to 24 tracks to play in the order you choose.

Preparation:

Press [▶/II] and then [■ ALARM STOP] to switch to CD mode.

Remote control only

- 1 Press [PGM/CLEAR].
- 2 Enter the track number with the numbered buttons.
For tracks numbered 10 and over, press [≥10] then the two digits.
Repeat this step to program the tracks in the required order.
- 3 Press [▶/II].
All the tracks are played in the selected order.

To stop play

Press [■].

"P" is displayed indicating that the program is still active.

To cancel

Press [PGM/CLEAR] in the stop mode and "CLR" is displayed. The mode is also canceled if the CD lid is opened.

"FULL" is displayed

If 24 tracks have already been programmed.

"-- --:-- --" is displayed

If the total play time of the program exceeds 100 minutes. You can still program and play tracks.

When "P" is displayed

To check the contents of the program

Press [←/I◀] or [▶/I+].

Each time one of the buttons is pressed, a track and its order in the program are displayed.

To add to the program

Repeat step 2.

Notes

- Program play does not work when "(RANDOM)" is displayed (press [PLAY MODE] to clear it).
- Search can be done within track only.

A CD play modes

Remote control only

You can repeat one track (1-↺), all tracks (↺) or play the tracks in random order ((RANDOM)).

Press [PLAY MODE] before or during playback to select the desired mode.

1-↺ → ↺ → ((RANDOM)) → off (no indication)

Press [▶/II] to start play if in the stop mode.

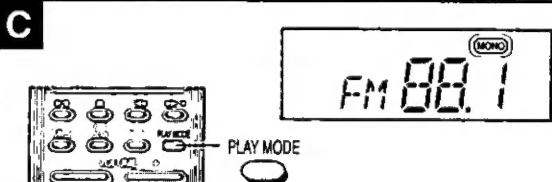
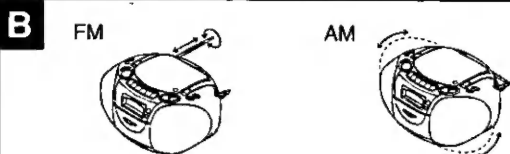
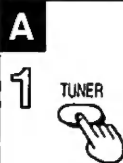
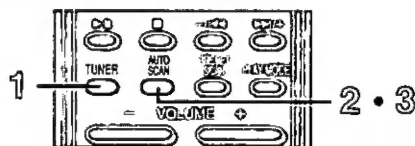
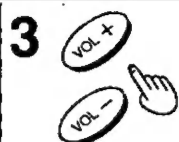
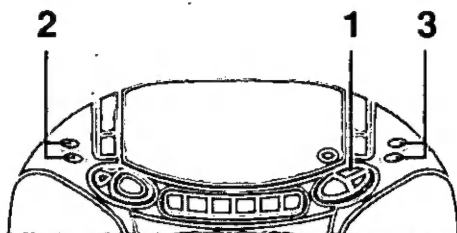
These modes remain active until canceled.

These modes are also canceled if the CD lid is opened.

You can use repeat mode with program play.

Note

Random and program play cannot be done at the same time.



The Radio: manual tuning

- 1 Press [TUNER/BAND] to select "FM" or "AM".
- 2 Press [-/◀◀] or [+/▶▶] to select a station.
- 3 Press [VOL -], [VOL +] to adjust the volume.

Auto-tuning

Press and hold [-/◀◀] or [+/▶▶] until the frequency starts changing rapidly.

Auto-tuning stops when it finds a station. (Interference may also cause it to stop. Start auto-tuning again if this occurs.)

To stop auto-tuning

Press [-/◀◀] or [+/▶▶].

A Using auto scan

Remote control only

You can search for a station by listening to all tuned-in stations for 8 seconds each.

- 1 Press [TUNER] to select "FM" or "AM".
- 2 Press [AUTO SCAN].
Auto scan starts.
- 3 Press [AUTO SCAN] when you find the desired station.

Auto scan ends when it reaches the original frequency again.

To stop during the process, press [AUTO SCAN].

B To improve reception

FM: Change the length and position of the antenna.

AM: Change the facing of the unit.

Note

To improve reception when using the unit in a building or vehicle use it near a window.

C If noise is excessive in FM

Remote control only

Press [PLAY MODE] to display "MONO".

Monaural sound is selected and noise reduces when reception is weak.

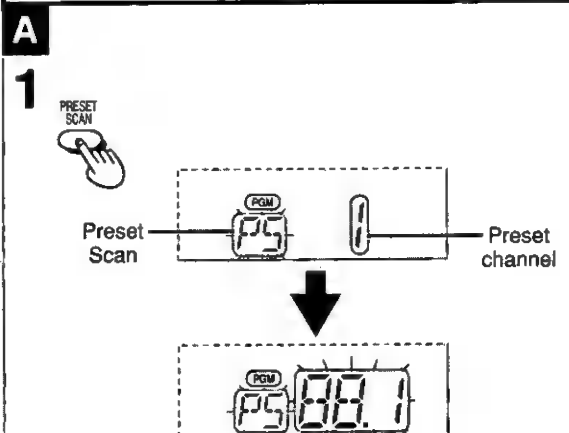
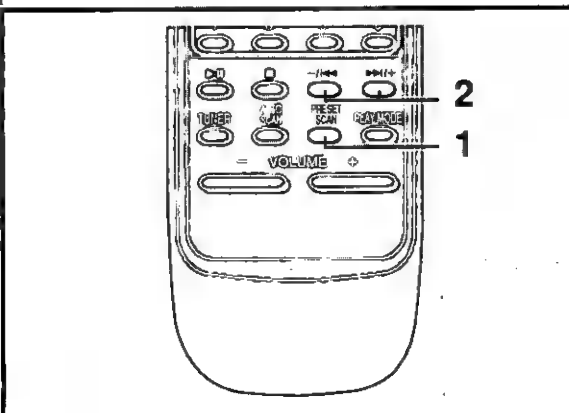
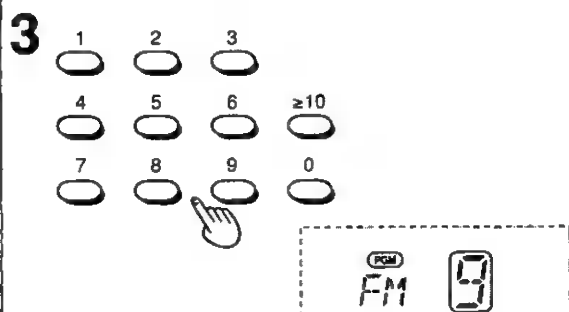
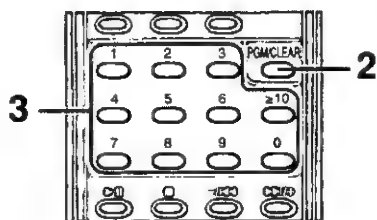
Press [PLAY MODE] again to cancel the mode.

To receive FM broadcasts allocated in 0.1MHz

Main unit only

First press [TUNER/BAND] to select "AM". Now, press and hold [TUNER/BAND]. The display changes in a few seconds to show the current lowest FM frequency. Continue to hold down the button.

The minimum frequency changes and the step is changed at the same time. Changing the step erases all preset stations. Repeat the above to change the step back.



The Radio: preset tuning

Remote control only

Tuning is simpler if you pre-set stations.

Preparation: Press [TUNER] to select "FM" or "AM".

Pre-setting radio stations

You can pre-set 12 FM and 12 AM stations.

- 1** Tune to the station you want to preset.
(→ page 10)
- 2** Press [PGM/CLEAR].
- 3** While "PGM" is flashing
Press the numbered buttons to enter the station into a channel (1 to 12).
• To enter channels 10, 11, and 12
Press [≥10], then the two digits.
- 4** Repeat steps 1-3 to preset other stations.

To select channels

Press the numbered button(s) to select the channel (1 to 12).

To select channel 10, 11 or 12, press [≥10], then the two digits.

Using preset scan

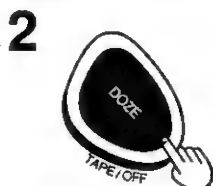
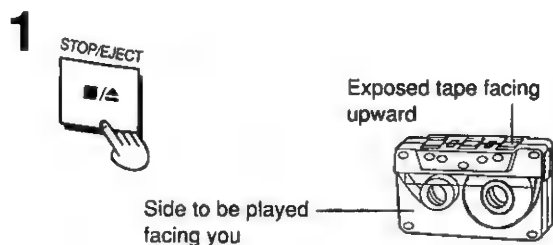
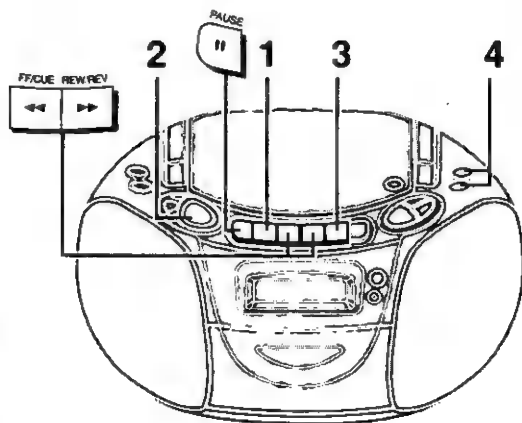
You can search for a station by listening to all preset channels for 8 seconds each.

- 1** Press [PRESET SCAN] and "PS" appears on the display.
Preset scan starts.
- 2** Press [←/⏮] or [→/⏭] when you find the desired channel.

Preset scan ends after searching through each preset channel once.

To stop during the process, press [←/⏮] or [→/⏭].

The station occupying a channel is erased if another station is preset in that channel.



Cassettes

- 1** Press [■/▲ STOP/EJECT] to open the deck and load a cassette.
Close the deck by hand.
- 2** Press [TAPE/OFF DOZE] to switch to tape mode.
- 3** Press [◀ PLAY] to start play.
- 4** Press [VOL -, VOL +] to adjust the volume.

To stop play

Press [■/▲ STOP/EJECT].

To eject tape

Stop tape play, then press [■/▲ STOP/EJECT].

To pause

Press [|| PAUSE] during playback.

To resume, press [|| PAUSE].

The unit's power is on in the pause mode. Stop tape to turn the unit off by pressing [■/▲ STOP/EJECT] when leaving the unit.

One touch play

When a cassette is loaded, press [▶ PLAY].

The unit comes on and play starts.

Fast-forward and rewind

Stop tape play, then press [◀◀ FF/CUE] (fast-forward) or [▶▶ REW/REV] (rewind).

To find a particular spot

Press and hold [◀◀ FF/CUE] (to search forward) or [▶▶ REW/REV] (to search backward) during playback. Play is resumed when the button is released.

Full auto-stop

The automatic stop system will release the buttons when the tape reaches the end during play, recording, fast forwarding or rewinding.

Selection of tapes

This unit is suitable for playing normal position tapes, but high and metal position tapes will not be played to their full potential.

Cassette tape care

- Tapes exceeding 100 minutes are thin and can break or get caught in the mechanism.
- Tape slack can get caught up in the mechanism and should be taken up before the tape is played.
- Endless tapes can get caught up in the deck's moving parts if used incorrectly.

Recording

You can record radio broadcasts or CDs.

Before recording

- This unit is suitable for recording normal tapes, but it cannot record onto high and metal position tapes to their full potential and prior recordings will not be erased correctly.
- The recording level is set automatically.
- Take up the leader tape before proceeding.

1 Press [■/▲ STOP/EJECT] to open the deck and load a cassette.
Close the deck by hand.

2 Select the source to be recorded.

When recording radio broadcasts

Tune in the station.

(Do steps 1–2 of "The Radio: manual tuning" on page 10.)

When recording CDs

Press [▶/||] and then [■ ALARM STOP] to switch to CD mode.

Insert the CD to be recorded.

(Do step 1 on page 8.)

If you want to record programmed tracks, program desired tracks before proceeding to step 3.

(Do steps 1–2 on page 9.)

3 Press [● REC] to start recording.

[◀ PLAY] is also depressed with [● REC].

Recording starts (one side only).

The CD also starts playing if in CD mode.

To stop recording

Press [■/▲ STOP/EJECT]. (The CD does not stop.)

To stop recording temporarily

Press [|| PAUSE]. (The CD does not stop.)

Press once again to resume recording.

To record on the other side of the cassette

Turn the cassette over and press [● REC].

If the CD finishes before the cassette

Recording continues. Press [■/▲ STOP/EJECT] to stop it.

If the cassette finishes before the CD

The CD continues playing. Press [■ ALARM STOP] to stop it.

Note

Noise may be recorded if this unit is near a TV. Keep the units at least 1.5 meters apart.

A Erasure prevention

Use a screwdriver or similar object to break out the tab.

B To re-record on a protected cassette

Cover the hole with adhesive tape.

To erase a cassette

1. Press [TAPE/OFF DOZE].

2. Insert the cassette with the side to be erased facing towards you and the exposed tape facing up.

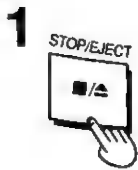
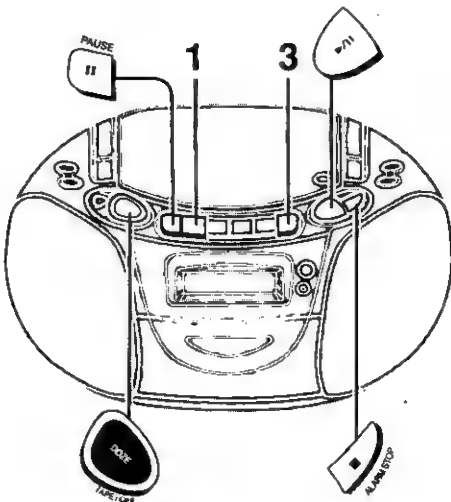
3. Press [● REC].

[◀ PLAY] is depressed at the same time.

Reference

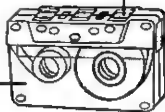
Changes to volume and sound quality do not affect recording.

To prevent interruptions to recording, supply AC power to the unit or replace the batteries.



Exposed tape facing upward

Side to be recorded facing you

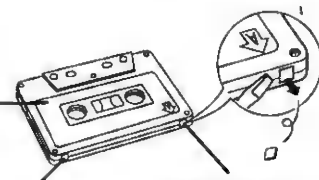


A

Side A

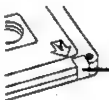
Tab for Side B

Tab for Side A



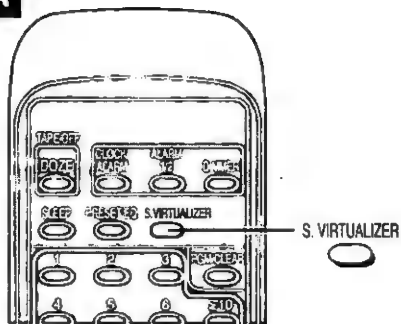
B

To re-record
Normal tape



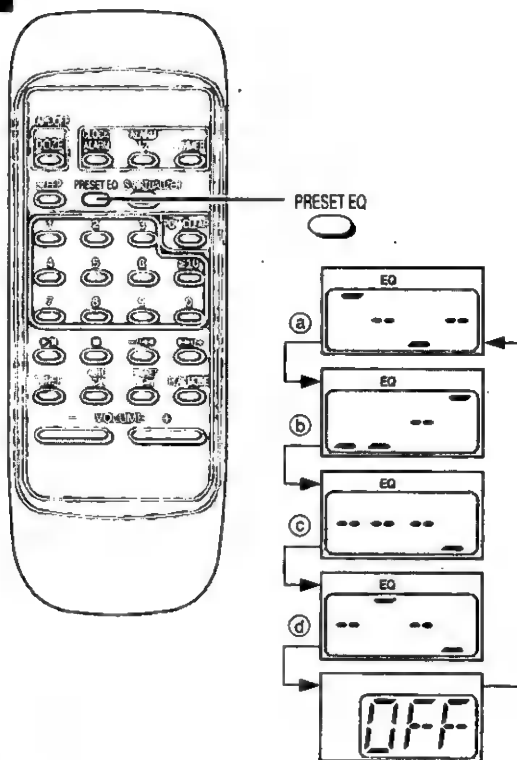
Adhesive tape

A

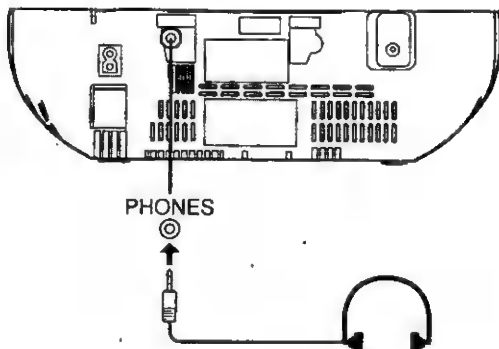


FM 88.1

B



C



A

3D sound with the Sound Virtualizer

Remote control only

You can create a three-dimensional sound field when listening to stereo sound.

Press [S.VIRTUALIZER].

Press again to cancel.

Note

Recordings are unaffected by this feature.
The actual effect depends on the source played.

B

Sound Quality

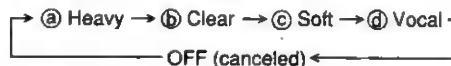
Remote control only

You can choose one of four types of sound quality.

- (a) **Heavy:** Adds punch to rock.
- (b) **Clear:** Clarifies higher sounds
- (c) **Soft:** For background music
- (d) **Vocal:** Adds gloss to vocal

Press [PRESET EQ] to select a setting.

Each time you press the button:



Note

Changes to sound quality do not affect recordings.

C

Using Headphones (not included)

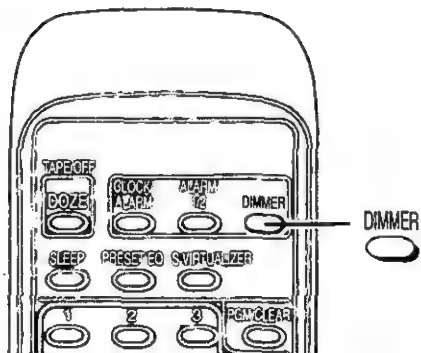
Reduce volume before connection.

Avoid listening for prolonged periods of time to prevent hearing damage.

Plug type: 3.5 mm (1/8") stereo

Note

If headphones are connected, the CD/Radio alarm (ALARM 1) and buzzer alarm (ALARM 2) will function but only the CD/Radio will be heard through the headphones.

A**A Dimming the Display Panel****Remote control only**

Use this when you are going to sleep or any other time you would prefer the panel to be dimmer.

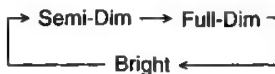
When using AC power

Press [DIMMER].

When using batteries

Press [DIMMER] when the unit is on.

Each time you press the button:

**B Setting the Time**

This is a twelve hour clock.

The example shows how to set the clock to 1:30 p.m.

- 1 When there is no CD loaded,
Press [▶/II] to turn on the unit.
The power indicator lights red.

- 2 Press [CLOCK/ALARM ADJ].

Each time you press the button:



- 3 Within 10 seconds
Press [◀/I] or [▶/II] to set the time.

- 4 Press [CLOCK/ALARM ADJ] to start the clock.

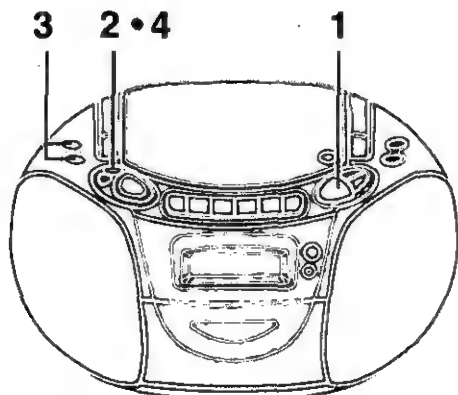
The original display is restored shortly after.

Note

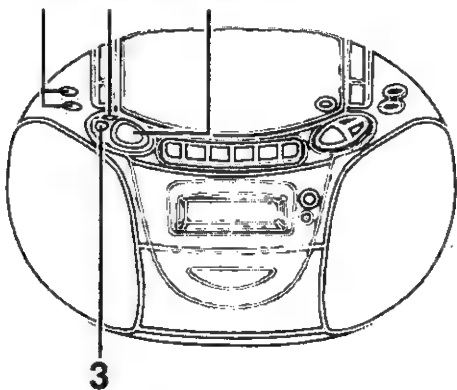
The clock is accurate to within ± 60 seconds a month. Readjust if necessary.

To display the clock

Press [CLOCK/ALARM ADJ] when the unit is on.

B**1****2****3****4**

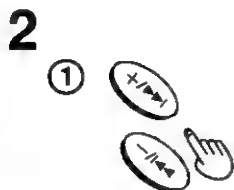
2 ① 1 • 2 ② 4



FOR CD/RADIO ALARM



FOR BUZZER ALARM

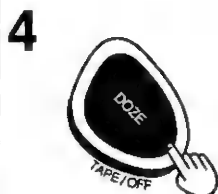


ALARM 1

ALARM 2

ALARM 1

ALARM 2



The Alarm

You can set the unit to play a CD, the radio or a buzzer at a set time. The unit turns off automatically after one hour.

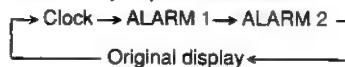
Preparation:

- Set the current time. (→ page 15)
- For the CD/Radio alarm, switch to CD/Radio mode, prepare the music source for listening, and set the volume.

Setting the alarm time

- 1 Press [CLOCK/ALARM ADJ] to select the desired alarm mode.

Each time you press the button:



ALARM 1: to set the CD/Radio alarm

ALARM 2: to set the buzzer alarm

- 2 ① Within 10 seconds
Press [-/◀] or [+/▶] to adjust the alarm time.

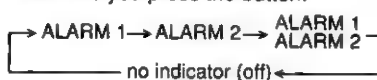
- ② Press [CLOCK/ALARM ADJ].

The alarm time is now set and original display restores.

Turning the alarm on

- 3 Press [ALARM 1/2] to turn on the desired alarm.

Each time you press the button:



ALARM 1: to play CD/Radio at the set time

ALARM 2: to sound the buzzer at the set time

ALARM 1, ALARM 2: to activate both ALARM 1 and 2 at their set time

(The indicator doesn't appear if the alarm time or the clock hasn't been set.)

- 4 Press [TAPE/OFF DOZE] to turn the unit off.
If the unit is left on, it will only sound the buzzer at the set time.

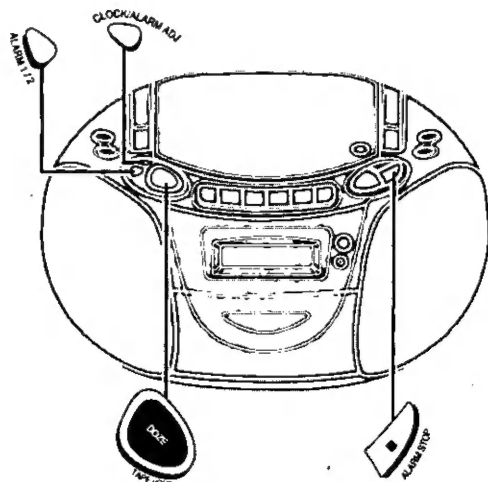
For your reference:

The unit can be used after the alarm has been set.

Notes

- If you set the CD alarm but do not insert a CD, the buzzer will sound at the set time instead.
- You cannot adjust the volume of the buzzer alarm.
- You cannot turn on CD/Radio alarm (ALARM 1) in tape mode.

(Continued on next page)



The Alarm

To stop the alarm

Press [ALARM STOP].

The alarm is stopped but the setting remains intact so the alarm will operate as set the next day as well.

To turn the alarm off

Press [ALARM 1/2] when the unit is on to clear the alarm indicators from the display.

To check the settings when the unit is off

Press [CLOCK/ALARM ADJ].

The settings are shown in the following order:

CD/Radio alarm : Alarm time → Source → Volume

→ Clock

Buzzer : Alarm time → Clock

Both alarms : (CD/Radio alarm) Alarm time → Source

→ Volume → (Buzzer) Alarm time

→ Clock

To snooze a few more minutes even after the alarm has sounded

Press [TAPE/OFF DOZE].

The alarm sounds again 6 minutes later.

Note

CD/Radio alarm and buzzer will sound if the setting of the two alarms are set at the same time.

A The Sleep Timer

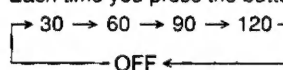
Remote control only

Set the unit to stop and turn off after a certain time.

While listening to a CD or the radio

Press [SLEEP] to select the time (in minutes).

Each time you press the button:



To cancel

Press [SLEEP] to select "OFF".

To check the remaining time

Press [SLEEP] once.

The remaining time is shown for about 5 seconds.

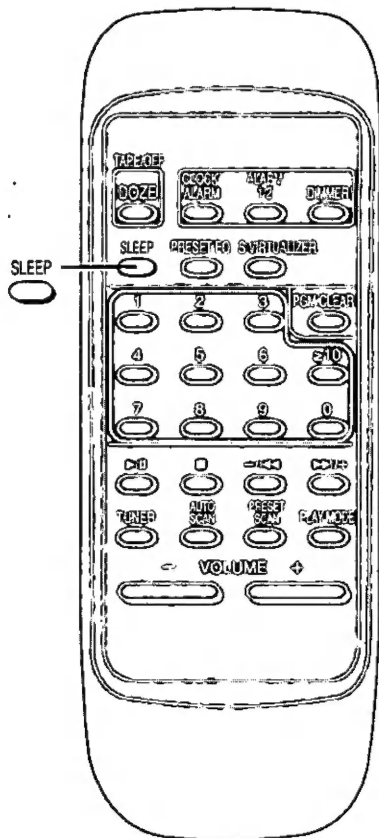
To change the time remaining during operation

Press [SLEEP] to show the remaining time then press [SLEEP] to select the desired time.

For your reference:

The alarm can be used in combination with the sleep timer.

A



Warranty (U.S.A.)

ONLY FOR U.S.A.

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company, Division of Matsushita Electric
of Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Portable Audio Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair or replace this product with new or refurbished parts or equivalent product, free of charge in the U.S.A. or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of original purchase):

PARTS & LABOR - ONE (1) YEAR

Non-rechargeable batteries are not warranted

Rechargeable batteries - (when applicable) exchange defective item for new one for ten (10) days.

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company - Customer Servicer
Suite B 4900 George McVay Drive
McAllen, TX 78503

In Puerto Rico contact the Panasonic Sales Company.

Tel. (787) 750-4300 Fax. (787) 768-2910

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached.

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Also, the purchaser will be responsible for shipping the unit to the above address.

This warranty is extended only to the original purchaser.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, faulty installation, mis-application, improper insertion of consumables, set-up adjustments, maladjustment of consumer controls, improper operation or maintenance, improper antenna, inadequate signal reception or pickup, alteration, modification, power line surge, improper voltage supply, lightning damage, commercial use or service by anyone other than a **PANASONIC SERVICES COMPANY** authorized repair facility, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES OR DISCS) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If you have a problem with this product that is not handled to your satisfaction, then write to the Consumer Affairs Department at the Company address indicated above.

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:
1-800-211-PANA(7262), Monday - Friday 9 am - 9 pm, Saturday - Sunday 9 am - 7 pm, EST.

Web Site: <http://www.panasonic.com>

You can purchase parts, accessories or locate your nearest servicer by visiting our Web Site.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday, PST)
(Visa, MasterCard, Discover Card, American Express, Check)

Troubleshooting

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (<http://www.panasonic.com>).

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 905-624-5505, web site (www.panasonic.ca), or an authorized Servicentre closest to you.

Reference pages are shown as black circled numbers ⑤.

Common problems

The unit doesn't work on batteries.	Is the AC power supply cord connected to the unit? Disconnect when using batteries. Have the batteries been inserted correctly? Check that the poles (+ and -) are correctly aligned. ⑤
"E" is displayed.	Indicates incorrect operation. Read the instructions.
"UO1" is displayed.	Batteries haven't been inserted. Insert batteries or use household AC power. "UO1" appears only if you have inserted memory batteries. ⑤

CD

CD won't play or CD display is incorrect.	Clean the CD. ⑧ Wait for about an hour for condensation to clear and try again. Make sure the label is facing up. ⑧ Replace the CD if it is scratched, warped, or irregularly shaped. ⑧
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Cassette deck

Recording not possible.	Have the cassette's tabs been removed? Cover the holes with tape. ⑬
Poor sound quality.	Clean the heads. back cover

Radio

Too much noise or difficult to tune.	Interference may be caused by other equipment. Turn the other equipment off or separate this unit from them. Interference may occur if a remote control from other equipment is used.
--------------------------------------	--

Remote control

The remote control doesn't work.	Check that the batteries are inserted correctly. ⑦ Replace the batteries if they are worn. ⑦
The unit can't be turned on from the remote control.	Use the corresponding button on the main unit if you are using batteries to power the unit. ⑤, ⑦

Specifications

Radio

Frequency range

FM	87.9–107.9 MHz (200 kHz steps)
	87.5–108.0 MHz (100 kHz steps)
AM	520–1710 kHz (10 kHz steps)

CD player

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source	Semiconductor laser (wavelength 780 nm)
No. of channels	2 channel, stereo
Wow and flutter	Below measurable limit
D/A converter	1 bit DAC

Tape recorder

Track system	4 track, 2 channel, stereo
Monitor system	Variable sound monitor
Recording system	AC bias
Erasing system	Multi Pole magnet
Frequency response	
Normal position	50 Hz–12 kHz

General

Speakers

Full Range 8 cm (3 1/8"), 4 Ω x 2

Jacks

Output PHONES: 3.5 mm stereo (32 Ω)

Power requirement

AC 120 V, 60 Hz

Power consumption: 14 W

Battery

9 V (Six R20/LR20, D, UM-1 batteries)

• Do not use rechargeable type batteries.

Memory back-up 6 V (Four R6/LR6, AA, UM-3 batteries)

• Do not use rechargeable type batteries.

Dimensions (WxHxD)

320 x 164 x 259 mm

12 19/32" x 6 15/32" x 10 3/16"

Mass

2.8 kg (6 lb. 3 oz.)

without batteries

Power consumption in standby mode : 1.0 W

Note

Specifications are subject to change without notice.
Mass and dimensions are approximate.

Product Service

- 1. Damage requiring service**—The unit should be serviced by qualified service personnel if:
 - (a) The AC power supply cord or AC adaptor has been damaged; or
 - (b) Objects or liquids have gotten into the unit; or
 - (c) The unit has been exposed to rain; or
 - (d) The unit does not operate normally or exhibits a marked change in performance; or
 - (e) The unit has been dropped or the cabinet damaged.
- 2. Servicing**—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3. Replacement parts**—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4. Safety check**—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

Product information

For product information or assistance with product operation:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (<http://www.panasonic.com>).

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

**Panasonic Services Company - Customer
Servicenter
Suite B 4900 George McVay Drive
McAllen, TX 78503**

In Puerto Rico contact the Panasonic Sales Company.
Tel.(787) 750-4300 Fax.(787) 768-2910

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached.


IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Also, the purchaser will be responsible for shipping the unit to the above address.

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 905-624-5505, web site (www.panasonic.ca), or an authorized Servicentre closest to you.

**Panasonic Consumer Electronics
Company, Division of Matsushita
Electric Corporation of America**
One Panasonic Way Secaucus,
New Jersey 07094
<http://www.panasonic.com>

**Panasonic Sales Company,
Division of Matsushita Electric of
Puerto Rico, Inc. ("PSC")**
Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park, Carolina,
Puerto Rico 00985

Panasonic Canada Inc. 
5770 Ambler Drive
Mississauga, Ontario
L4W 2T3
www.panasonic.ca

Maintenance

If the surfaces are dirty

To clean this unit, wipe with a soft, dry cloth.

- Never use alcohol, paint thinner or benzene to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Cleaning inside the deck

Clean the heads regularly to assure good quality playback and recording.

Use a cleaning tape (not included).

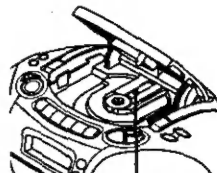
Care of the CD lens

Clean the lens regularly to prevent malfunctions.

Use a blower to remove dust and a cotton swab if it is extremely dirty.

Recommended product:

Lens cleaner kit (part no. SZZP1038C).



Lens